

## CLAIMS

1. A broadcast channel change detection apparatus comprising  
detection means for receiving a broadcast wave including channel  
change information that includes a change date and time of a physical  
5 channel of the broadcast wave and physical channels before and after  
the change, and for searching and detecting channel change plan  
information that includes the change date and time regarding the  
physical channel to be changed in a television receiver apparatus and  
the physical channels before and after the change, based on the  
10 channel change information.

2. A broadcast channel change detection apparatus  
comprising:  
first storage means for previously storing channel preset  
information including a physical channel of a broadcast wave received  
15 by a television receiver apparatus; and

detection means for receiving the broadcast wave including  
channel change information that includes a change date and time of the  
physical channel of the broadcast wave and physical channels before  
and after the change, and for searching and detecting channel change  
20 plan information that includes the change date and time regarding the  
physical channel to be changed in said television receiver apparatus  
and the physical channels before and after the change, based on the  
channel preset information and the channel change information.

3. The broadcast channel change detection apparatus as

claimed in claim 1 or 2, further comprising judgment means for receiving the broadcast wave on the physical channel after the change in the channel change plan information, and for judging whether or not the broadcast wave is actually receivable based on the detected channel change plan information, when the change date and time in the channel change plan information is older than or equal to a current date and time.

4. The broadcast channel change detection apparatus as claimed in claim 3,

10            wherein said judgment means stores the physical channels before and after the change regarding the broadcast wave that is actually receivable, in second storage means as a channel shift list.

5. The broadcast channel change detection apparatus as claimed in claim 4, further comprising notification means for notifying a user of information of the stored channel shift list.

6. The broadcast channel change detection apparatus as claimed in claim 4 or 5, further comprising update means for updating the channel preset information including the physical channel of the broadcast wave received by the television receiver apparatus, based on the information of the stored channel shift list.

7. The broadcast channel change detection apparatus as claimed in claim 1 or 2, further comprising notification means for notifying a user of the detected channel change plan information.

8. The broadcast channel change detection apparatus as

claimed in claim 1, 2 or 7, further comprising update means for updating the channel preset information including the physical channel of the broadcast wave received by the television receiver apparatus, based on the detected channel change plan information.

5           9. A recording apparatus comprising:

          said broadcast channel change detection apparatus as claimed in any one of claims 1 to 8; and

          recording means for receiving the broadcast wave, and recording video and audio signals of the received broadcast wave.

10           10. The recording apparatus as claimed in claim 9, further comprising control means for judging whether or not a physical channel after the change is present based on the channel change plan information upon executing a reserved recording process, for receiving the broadcast wave on the physical channel after the change in the  
15           channel change plan information and judging whether or not the broadcast wave is actually receivable when the physical channel after the change is present, and for executing the recording process when the broadcast wave is actually receivable.

          11. The recording apparatus as claimed in claim 10,  
20           wherein said control means notifies a user that the recording process failed when the broadcast wave is actually non-receivable.

          12. The recording apparatus as claimed in claim 9, further comprising control means for judging whether or not a physical channel after the change is present based on the channel shift list upon

executing a reserved recording process, for receiving the broadcast wave on the physical channel after the change in the channel shift list and judging whether or not the broadcast wave is actually receivable when the physical channel after the change is present, and for executing the recording process when the broadcast wave is actually receivable.

13. The recording apparatus as claimed in claim 10, wherein said control means notifies a user that the recording process failed when the broadcast wave is actually non-receivable.

14. A television receiver apparatus for receiving a broadcast wave, and displaying and outputting video and audio signals of the received broadcast wave, respectively, said television receiver apparatus comprising said broadcast channel change detection apparatus as claimed in any one of claims 1 to 8.

15. A television receiver apparatus for receiving a broadcast wave, and displaying and outputting video and audio signals of the received broadcast wave, respectively, said television receiver apparatus comprising said recording apparatus as claimed in any one of claims 9 to 13.